

VEHICLE AIR FRESHENER

BACKGROUND OF THE INVENTION

1. Field of the Invention:

The present invention relates to a vehicle air freshener
5 and, more particularly, to such a vehicle air freshener that
functions as a toy tumbler when dissipating a volatile liquid
perfume into the air inside the vehicle.

2. Description of the Related Art:

Various vehicle air fresheners have been disclosed, and
10 have appeared on the market. These vehicle air fresheners may
be fastened to a flat surface inside a vehicle or hung on the
output port of the air conditioner of a vehicle. They commonly
hold a volatile liquid perfume that gives a good smell after
removal of the sealing cap from the container body. These
15 conventional air fresheners are simply designed to dissipate a
volatile liquid perfume into air. Due to static design, these
conventional air fresheners do not attract much the consumers'
attention.

SUMMARY OF THE INVENTION

20 The present invention has been accomplished under the
circumstances in view. It is one object of the present invention
to provide vehicle air freshener, which oscillates like a toy

tumbler and dissipates a volatile liquid perfume into the air inside the vehicle during running of the vehicle.

To achieve this and other objects of the present invention, the vehicle air freshener comprises a bottle, the bottle
5 having a downwardly protruded bottom mounting flange and a socket sealed to a bottle neck thereof; a fluid filled in the bottle; a volatile liquid perfume filled in the bottle and floating on the fluid, the volatile liquid perfume having a gravity smaller than the fluid; an absorptive core member mounted in the socket and
10 extended to the volatile liquid perfume and adapted to dissipate the volatile liquid perfume into air outside the bottle; an ornament mounted inside the bottle and dipped in the volatile liquid perfume and the fluid, the ornament having a bottom side fixedly mounted with a weight; a base fastened to the
15 downwardly protruded bottom mounting flange of the bottle and disposed in flush with the periphery of said bottle; and a bottle cap fastened to the bottle neck of the bottle around the socket, the bottle cap having a center through hole adapted to accommodate the bottleneck of the bottle, and a plurality of wire
20 holes for mounting cord members.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is an exploded view of a vehicle air freshener

according to the present invention.

FIG. 2 is a perspective assembly view of the vehicle air freshener according to the present invention.

FIG. 3 is a schematic sectional view showing the vehicle
5 air freshener oscillated on a flat surface according to the present invention.

FIG. 4 is an exploded view of an alternate form of the vehicle air freshener according to the present invention.

FIG. 5 is a schematic sectional view of the vehicle air
10 freshener shown in FIG. 4.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring to FIG. 1, a vehicle air freshener in accordance with the present invention is shown comprised of a bottle 1, filling materials 2, a base 3, and a bottle cap 4.

15 Referring also to FIGS. 3 and 5, the bottle 1 has a downwardly protruded bottom mounting flange 11 press-fitted into the recessed top side of the base 3, a socket 13 sealed to the bottle neck to hold an absorptive core member 12, which has a bottom end extended to the inside space of the bottle 1.

20 The filling materials 2 are put in the bottle 1, including a first fluid 21, a second fluid 22, and an ornament 23. The first fluid 21 is a perfume of gravity relatively smaller than the

second fluid 21. The second fluid 22 can be water. If desired, the second fluid can be colored with a color substance. The ornament 23 has a weight 24 at the bottom side. The weight 24 holds the ornament 23 in the second fluid 22 and the first fluid 5 21, enabling the ornament 23 to be oscillated with the second fluid 22 and the first fluid 21 inside the bottle 1. The ornament 23 can be made having the shape of any of a variety of animals. The weight 24 is shaped, for example, like a fish.

The base 3 is preferably injection-molded from plastics. 10 When fastened to the downwardly protruded bottom mounting flange 11, the base 3 is maintained in flush with the periphery of the bottle 1. The base 3 can be made having a smoothly curved bottom surface such that the vehicle air freshener functions as a toy tumbler (see FIGS. 2 and 3). Alternatively, the base 3 can be 15 made having a flat bottom surface (see FIGS. 4 and 5) mounted with a double-sided adhesive tape 31 for fastening to a flat surface inside a vehicle.

The bottle cap 4 has a center through hole 41 that is fastened to the bottleneck of the bottle 1 around the socket 11, 20 and a plurality of wire holes 42. Cord members 49 may be fastened to the wire holes 42 for securing the vehicle air freshener to the internal rear-view mirror 5 inside a vehicle.

As indicated above, the user can use a double-sided adhesive tape 31 to fasten the vehicle air freshener to a flat surface inside the vehicle, or use cord members 49 to secure the vehicle air freshener to the internal rear-view mirror of the vehicle. When the user is driving the vehicle, the good smell is dissipated into the air inside the vehicle through the core member 12. In the embodiment shown in FIG. 3, the vehicle air freshener functions as a toy tumbler, the vehicle air freshener oscillates without falling during running of the vehicle.

10 A prototype of vehicle air freshener has been constructed with the features of FIGS. 1~5. The vehicle air freshener functions smoothly to provide all of the features discussed earlier.

Although particular embodiments of the invention have been described in detail for purposes of illustration, various modifications and enhancements may be made without departing from the spirit and scope of the invention.